PATENT COOPERATION TREATY

PCT

COMMUNICATION OF INTERNATIONAL APPLICATIONS

(PCT Article 20)

Date of mailing:

29 January 1998 (29.01.98)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ETATS-UNIS D'AMERIQUE

in its capacity as designated Office

The International Bureau transmits herewith copies of the international applications having the following international application numbers and international publication numbers:

International application no.:

PCT/IL97/00193

International publication no.:

WO97/47270

CORRECTED CORRIGHE.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

.. - -

Authorized officer:

J. Zahra

Ex parte ALTERMATT, 183 USPQ 436 (BdPatApp&Int 1974)

Ex parte ALTERMATT

(BdPatApp&Int) · 183 USPQ 436 · 9/24/1974 · 3/11/1974

Patent issued Sept. 24, 1974
Opinion dated Mar. 11, 1974
U.S. Patent and Trademark Office, Board of Patent Appeals and Interferences

Headnotes

PATENTS

1. Claims — Indefinite — Chemical (§ 20.553)

Claims are not indefinite under second paragraph of 35 U.S.C. 112 because of inclusion of "a radical of an aromatic diazo component," "substituted alkylene," "substituted phenylene," "alkoxy," "alkyl," "acyl," "acyloxy," and "acylamino."

2. Claims — Specification must support (§ 20.85)

Claims containing "alkyl," "alkoxy," "alkylene," and "a divalent hydrocarbon radical" are supported by specification since terms are no broader than broadest written description of invention in specification; moreover, no reason is provided why any particular alkyl, alkoxy, alkylene, or hydrocarbon group would be expected to be inoperative in environment of claimed dyes.

Particular patents—Disazo Compounds

3,838,145, Altermatt, Disazo Compounds of Low Water Solubility, claims 3 to 16 of application allowed.

Case History and Disposition:

Page 436

Appeal from Group 123.

Application for patent of Ruedi Altermatt, Serial No. 838,665, filed July 2, 1969. From decision rejecting claims 3 to 16, applicant appeals (Appeal No. 144-27). Reversed.

Attorneys:

IRWIN M. AISENBERG, Washington, D. C., for applicant.

Judge:

Before MAGIL and SEROTA, Examiners in Chief, and MCKELVEY, Acting Examiner in Chief.

Opinion Text

Opinion By:

MCKELVEY, Acting Examiner in Chief.

This is an appeal from the final rejection of claims 3 through 16 of appellant's application.

The invention relates to dye compounds

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which are useful for dyeing synthetic fibers, such as fibers made from polyamides or cellulose triacetate (specification, page 13). The dye compounds are also said to "reserve wool and cotton well" (specification, page 13).

Claim 13 is the only independent claim in the case. Claims 3 through 12 and 14 through 16 depend directly or indirectly from claim 13. Claim 13 calls for azo dyes free from carboxylic acid and sulphonic acid groups having the formula:

Graphic material consisting of a chemical formula or diagram set at this point is not available. See text in hard copy or call BNA PLUS at 1-800-452-7773 or 202-452-4323.

A, B, D, X, and R 1through R gare defined in the claim which need not be reproduced here.

In his answer, the examiner relies on the following reference:

Kirby 2,330,291 Sept. 28, 1943

The following rejections are before us:

- (1.) Claims 3 through 16 stand rejected under 35 U.S.C. 103 over Kirby, and
- (2.) Claims 13 and 14 stand rejected under 35 U.S.C. 112, first and second paragraphs.

1. Disposition of Rejection Based on Kirby

Kirby discloses dyes. The dyes disclosed by Kirby and the claimed dyes both have what will be referred to as a bridging group. The bridging group is attached at either end to a phenyl or substituted phenyl group

which is in turn attached to a azo group. The claimed dyes differ from the dyes disclosed by Kirby in that the bridging group of the claimed dyes is attached to the phenyl or substituted phenyl groups via an amino group, whereas the bridging group of the dyes disclosed by Kirby is attached to the phenyl or substituted phenyl groups via an amide group. According to the examiner, a representative bridging group disclosed by Kirby has the formula:

Graphic material consisting of a chemical formula or diagram set at this point is not available. See text in hard copy or call BNA PLUS at 1-800-452-7773 or 202-452-4323.

whereas a representative bridging group of the claimed dyes would have the formula: Graphic material consisting of a chemical formula or diagram set at this point is not available. See text in hard copy or call BNA PLUS at 1-800-452-7773 or 202-452-4323.

It will be noted, with respect to the representative bridging groups that the Kirby bridging group has terminal amide groups and the bridging group of the present dyes has terminal amine groups.

The examiner holds that the claimed dyes "* * * are so closely related to the analogous compounds of the reference as to be structurally obvious therefrom * * *." The examiner further holds that "[a]ny differences in structure [between the claimed dyes and the dyes of Kirby] would be but obvious modifications to one of ordinary skill in the art."

The record will not support the above-mentioned holdings of the examiner. There is nothing in the prior art relied upon by the examiner which teaches, suggests, or otherwise provides a motive for changing the terminal amide groups of Kirby to amine groups. Accordingly, we are unable to conclude that the examiner has made out a prima facie case of obviousness on this record. We will further note that the dyes of Kirby appear to be useful for dyeing wool and cotton (page 4 column 1, lines 39-41 and page 5, column 1, line 17), whereas according to appellant the instant dyes are said to "* * reserve 1 wool and cotton well" (specification, page 13).

The decision of the examiner rejecting claims 3 through 16 under 35 U.S.C. 103 over Kirby is reversed.

2. Disposition of Rejection Based on Section 112

[1] The examiner held that claims 13 and 14 were unpatentable under 35 U.S.C. 112, first and second paragraphs, because various terms, such as "a radical of an aromatic diazo component", "substituted alkylene", "substituted phenylene", "alkoxy", "alkyl", "acyl", "acyloxy", and "acylamino" are indefinite, 35 U.S.C. 112, second paragraph. Based on his holding, the examiner concludes that one skilled in the art would not know the limits of the patent protection sought. We have carefully reviewed the examiner's position vis-a-vis that of appellant on the question of the definiteness of the above-mentioned terms. Such review leads us to conclude that the claims are definite and that one skilled in the art would know what the claims cover. Compare General Electric Co. v. Wabash Appliance Corp., 304 U.S. 364, 369, 37 USPQ 466, 468 (1938).

[2] The examiner has also held that the specification will not support claims containing the terms "alkyl", "alkoxy", "alkylene", and "a divalent hydrocarbon radical", 35 U.S.C. 112, first paragraph. The claims which

Page 438

contain these terms are no broader than the broadest written description of the invention in appellant's

specification. Moreover, the examiner has provided no reason why any particular alkyl, alkoxy, alkylene, or hydrocarbon group would be expected to be inoperative in the environment of the claimed dyes. Compare In re Robins, 57 CCPA 1321, 429 F.2d 452, 166 USPQ 552 (1970).

The decision of the examiner rejecting claims 13 and 14 under 35 U.S.C. 112, first and second paragraphs, is reversed.

Footnotes

Footnote 1. "reserve" is defined in Blackshaw et al. Dictionary of Dyeing and Textile Printing (Great Britain, Arrowsmith Ltd., 1961), p. 146, as: "To leave undyed certain fibres or threads in a union material, or in a material containing EFFECT THREADS (q.v.). The objective is achieved by selecting those dyes which have substantivity for the fibre to be coloured but which have no substantivity for the fibre to be reserved."

- End of Case - 21123

PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: MARK M FRIEDMAN SAMUELOFF BUILDING THOAMANIM STREET 67897 TEL AVIV ISRAEL

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of Mailing (dayimorsh/year)

Applicant's or ascar's file informace

1043/1

IMPORTANT SOTIFICATION

international filing date (asymmenth/year)

Priority Date (day/month/year)

PCT/IL97/05193

International application is o

15 JUNE 1997

14 JUNE 1996

Applicant

ARAD, DORIT

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will manamit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying authoral fees) within 30 months from the priority date (or later in some Offices) (Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301)

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international probuninary arasimation report. It is the applicant's responsibility to prepare and formish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume E of the PCT Applicant's Guide.

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Washington, D.C. 20231

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(703) 308-1235

Tome PCT IPEAU415 (July 1992)*



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 76)

Applicante or agents the reference 1043rt	FOR FURTHER ACTION	CTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/41		
international application No.	International filing date (day/month/year) Priority date (day/month/year)		Priority data (day/month/year)	
PCT/IL97/00193	15 JUNE 1997 L4 JUNE 1		14 JUNE 1996	
intermetional Patent Classification (IPC) or autional classification and IPC Figure See Supplemental Sheet.				
Applicant ARAD, DORIT				
Examining Authority and is	transmitted to the applicant i	been prepare	ed by this International Preliminary Article 36.	
2. This REPORT consists of a	į –			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been smended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a t	otal of sheets.			
3 This report contains indication	ns relating to the following it	ems:		
I X Basis of the rep	ort			
II Priority				
ill Non-establishme	at of report with regard to no	volty, inventi	ve step or industrial applicability	
IV Lack of unity of	invention			
V X Reasoned statema citations and expi	est under Article 35(2) with regulations supporting such statem	ard to novelty, ent	inventive sup or industrial applicability;	
VI Certain documents sited				
VII Certain defects in the international application				
VIII Certain observations on the international application				
		-	of this record	
Date of submission of the domand	Date	of completion	di mis tehati	
12 JANUARY 1998	2:	FEBRUARY	1998	
Name and mailing address of the IPEANS Authorized officer				
Factorile No. (703) 305-3230	Table No. (702) 308-1235			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IL97/00193

i. Itanie o	f the report	
1. This report l	as being drawn on the	basis of Substitute shiers, which have been furnished to the receiving Office in response to an invasion
i X	_	this report as "originally filed" and are not annoted to the report since they do not contain amendments; If application as originally filed.
p	•	
LX	the description,	pages 1-33 as originally filed.
		pages MONE , filed with the demand
		pages NONE filed with the letter of
LX	the claums,	Nos. 1-13 , as originally filed.
		Nos. NONE , as amended under Article 19.
		Nos. NONE , filed with the demand.
		Nos. NONE , filed with the letter of
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X	the drawings,	shests/fig NONE , as originally filed
		shoets fig NONE , filed with the demand.
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		shouts/fig filed with the lener of
X X	the claims,	Pages NONE Nos. NONE Specialing NONE
		tablished as if (some of) the amendments had not been made, since they have been considered sure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2(c)).
4 Addition	al observations, if	necessary;
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INTERNATIONAL PRELIMINARY EXAMPLATION REPORT

International application No PCT/(L97/00193

S PAULDAEDNIT			
STATEMENT			•
Movely (N)	Claims Claims	HONE	Y
•	CHUIS	NONE	
Inventive Step (IS)	Claims	1-13	
	Claims	NONE	N
	425	2.14	Y
Industrial Applicability (IA)	Clauras Clauras		N
CITATIONS AND EXPLANATIO	NS		
Claims -13 meet the criteria aut cut in PCT	Article 35(2)He), because the prior art does not to	ach or fairly suggest the use
of the instant compounds (N- 1 airy)-2-exo-2	.1,4,3-trabyan	- 1H-1.5 benzodiazapin-3 Yi-amides	with anti-tiral activity.
		•	
NONE			
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m PUT/IPEA/409 (Box V) (January 1994)*			

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INTERNATIONAL PRELIMENARY EXAMINATION REPORT

international application No. PCT/IL97/00193

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Sheet 10

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WO 97.472**70** PCT/IL97/00193

PATENT COOPERATION TREATY

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(POT Rule 47.1(a) first schlense)

From the INTERNATIONAL BUREAU

To:

FRIEDMAN, Mark, M. Samueloff Building Hadmanim Street 7 67897 Tel Aviv SRAËL

Date of mailter (devincoutry/ear)

të December 1997 (18.12.9/ i

Applicant's or agent's life reference

international application No.

PCT 1197-00193

1043/1

International filing date (day/mis/chin) and,

15 June 1997 (15.06.97)

(Princity date (day/mornhyless)

IMPORTANT NOTICE

14 June 1996 (14.06.96)

Aughteen

ARAG, Done et al

 Notice is hereby given that the international buries his communicated, as provided in Article DE, the international application to the following designated offices on the date indicated above as the gate of making of this Notice. AUBBICA ON EP, LUF KEIKHING PLISKIUS

In socioniance with Bule 47, you muid sentence those Offices will accept the present hoodge at conductive evidence that the our runnished of the intermeterial sopries on each only taken place on the date of meding purposted above end no copy of the intermeters application is required to be successful by the application to the designated Original.

The following designated Critices nave was ecithelies with mention such a communication at this time

ALJAM, APJATJAZJBAJBEJBGJBYJCHJCUJCZJDEJBKJEAJEEJESJFJGBJGEJHUJISJKEJKCJKZJJCJLKJ LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NZ, OA, PT, RC, RU, SD, SE, SC, SI, TU, TM, TR, TT, LA, UG, UZ,

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not reduce this applicant to furnish a popy of the retarnational application (Rule 49.1(a-bis)).

3. Enckand with this Notice is a locy of the international application as published by the imemsel of all Suresid on 18 ©comber 1997 (18.10 97) under No. W€ 97/47278

REMINDER REGARDING CHAFTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to positions early into the national phase until 30 months (or little) is some Offices) from the original date, a demand for international prefiningly examination that he filled with the competent international Prefiningly Examining Authority before the oxpiration of 18 months from the priority date.

it is the applicant's sole responsibility to monitor the Talinopth time limit

Note that only an applicant who is a national or resident of a POT Contracting State which is sound by Chapter 4 has the night to file a demand for international preliminary examinetion.

REMINDER BEGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the informational application in file national phase, he must within 20 months or 30 months on laser in some Offices, perform the acts referred to the rain before each designation or elected Office.

nor it other impurisation formation on the time Brots and acts to be performed for amening the national phase, see the Annex to Form PCT/8 301 (Notineation of Receipt of Record Copy) and Volume Coffine PCT Applicant's Garbe

The international Buleau of Vago 34, chenno des Colombettes 1211 Geneva 20. Switzerland

Authorized officer

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Larry PETABLECK to My 1990

PCT/IL57/00153

PATENT COOPERATION TREATY

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NOTIFICATION OF RECEIPT OF RECORD COPY

(PCT Fiule 24.2(a))

From the INTERNATIONAL BUREAU

To:

FRIEDMAN, Mark, M. Samueloff Building 7 Haomanim Street 67897 Tel Aviv ISRAEL

Date of mailing (day/month/year) 26 June 1997 (26.06.97)	IMPORTANT NOTIFICATION
Applies it's or agent's file reference 1043/1	International application No. PCT/IL97/00193

4.75.7		
The applicant is hereby notified that the bidetalled below	nternational E	Bureso has received the record copy of the international application as
Name(s) of the applicant(s) and State(s) t	er which the	, are applicants:
ARAD, Dorit (all designated ELIAS, Yuval et al (for US)	States)	
International filling date		15 June 1997 (15.05.97)
Prority date(s) diameted	!	14 June 1996 (14.06.96)
Date of receipt of the record copy by the international Burery	•	29 June 1997 (26.06 97)
Est of design was Offices		
FA :AM,AZ,BY:KG,KZ,MD,BU EP :AT,BE,CH,DE,DK,ES,FI,FR OA :BF,BU,CF,CG,CI,CM,GA,C National :AL,AM,AT,AU,AZ,B IS,JP,KF,KG,KP,KR,KZ,LC,LK, SE,SG,SI,SK,TJ,TM,TR,TT,UA	R, GB, GR, IE, GN, ML, MR, IA, BB, BG, E LB, LS, LT, L	,NE,SN,TD,TG 3R,BY,CA,CH,CN,CU,CZ,DE.DK,EE,ES,FI,GS.GE,HU,IL, ,U LV,MD,MG,MK,MN,MV,MX,NO,NZ,PL,PT.RO,PU,SD.
ATTENTION		
The applicant should carefully check and the indications in the internation	kithe data app naliapplicatio	nearing in this Notification. In case of any discrepancy between these data in, the applicant should immediately inform the International Bureau.
in addition, the applicant's attention	is drawn to t	the information contained in the Annex, relating to:
X time limits for entry into the r	national phase	a:
X configuation of precautionary	/ designation:	s;
requirements regarding prior	Ny document	a.
A copy of this Notification is being sent to	o the receivin	g Office and to the International Searching Authority.

The International Sureau of WIPO 31, chemin des Colombattes 1211 Geneva 20, Switzerland Facsimilia No. (41-22) 740.34.35

Authorized officer:

Talephone No. (#1-22: 338 85.38

CC1558677

INTERNATIONAL SEARCH REPORT

International application No. PCT/IL97/00193

A. CLASSIFICATION OF SUBJECT MATTER IPC(6) :Please See Extra Sheet. US CL :Please See Extra Sheet. According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/112, 115, 117, 120, 124; 558/38, 268, 395; 560/9, 11, 15, 19; 564/33, 102, 105, 107					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category* Citation of document, with indication, where as	opropriate, of the relevant passages Relevant to claim No.				
A KENNY et al. "In Vitro and In Vivo Some Phenoxypyridinecarbonotrile", I Agents and Chemotherapy. Vol. 28, 1	December 1985, Antimicrobial				
Further documents are listed in the continuation of Box (See patent family annex.				
Special categories of cited documents: document defining the general state of the art which is not considered to be of perticular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
E earlier document published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means	"X" document of perticular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
P document published prior to the international filing data but later than the priority data claimed	*&* document member of the same patent family				
Date of the actual completion of the international search 16 SEPTEMBER 1997	Date of mailing of the international search report 0 4 DEC 1997				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer EBENEZER SACKEY Telephone No. (703) 308-1235				

International application No.

INTERNATIONAL SEARCH REPORT	РСТ/1L97/00193
A. CLASSIFICATION OF SUBJECT MATTER: IPC (6):	
A61K 31/66; C07C 305/00, 69/96, 255/00, 321/00, 315/00, 229/00, 275/00, 313/00,	261/00
A. CLASSIFICATION OF SUBJECT MATTER: US CL :	
514/112, 115, 117, 120, 124; 558/38, 268, 395; 560/9, 11, 15, 19; 564/33, 102, 105,	107